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UNIVERSITY OF VIRGINIA
THE COLGATE DARDEN GRADUATE SCHOOL OF BUSINESS ADMINISTRATION
Tayloe Murphy Institute

Virginia Annual Gross State Product, 1958-1982

John L. Knapp & Beverly H. Capone

This publication is part of the Tayloe Murphy Institute series on Virginia Gross State Product. Annual data are published each year with a lag of one year due to the delay in receiving national and state data. The annual data are important to the more current estimates of quarterly gross state product (GSP) since they are used as benchmarks. The annual report highlights long-term trends in GSP while the quarterly report highlights recent developments.

Gross state product (GSP) is an estimate of the value of all goods and services produced in the state in one year. For purposes of comparison, GSP may be regarded as the state equivalent of gross national product (GNP). The figures in this report supersede those published in earlier reports of the Tayloe Murphy Institute.

In current dollars (unadjusted for inflation), Virginia GSP rose from $8.2 billion in 1958 to $67.2 billion in 1982 (see Table 1). Average annual growth over the period was 9.0 percent.1/

Real Virginia GSP (gross state product converted to 1972 dollars of constant purchasing power) grew from $13.0 billion in 1958 to $32.7 billion in 1982 (see Table 2 and Figure 1). Average annual growth over the entire period was 4.1 percent. Virginia experienced four declines in real GSP occurring 1969-70, 1974-75, 1979-80, and 1981-82, and coinciding with national recessions.

Virginia's current dollar GSP as a percent of GNP is shown in Figure 2. When the rate of growth of GSP exceeds that of GNP, Virginia's share of GNP increases. In 1982, GSP was 2.19 percent of GNP, the largest that it has ever been. Virginia's share of GNP has been rising from its 1958 low of 1.82 percent, with most of the gain occurring from 1966 to 1974.

1/ All growth rates were computed using the least squares method.

December 1983

Figure 1.
Virginia Gross State Product, 1958 - 1982 (billions of 1972 dollars)

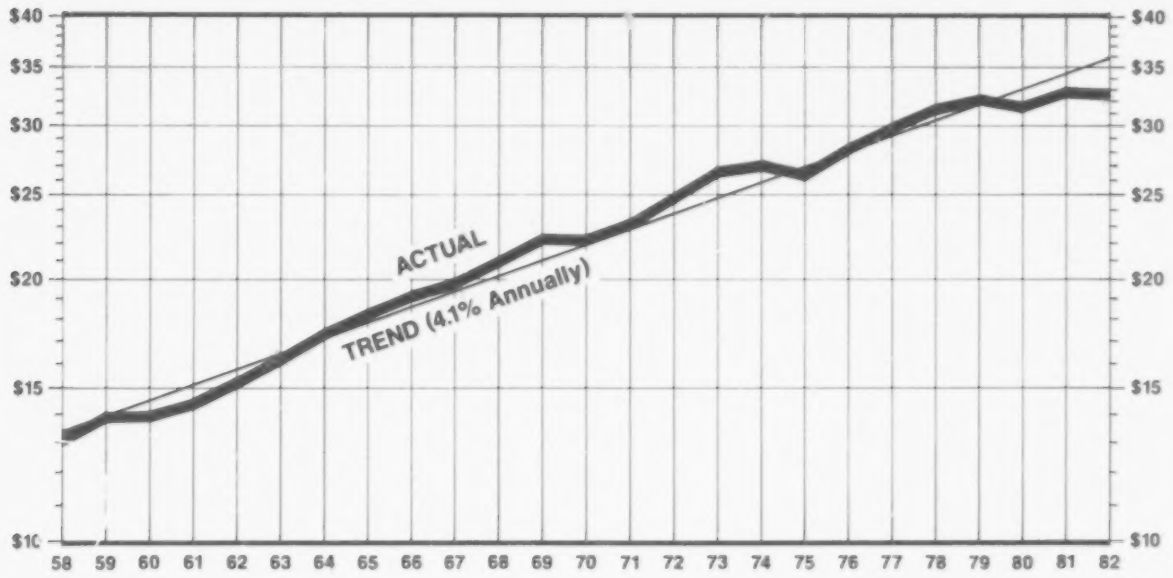
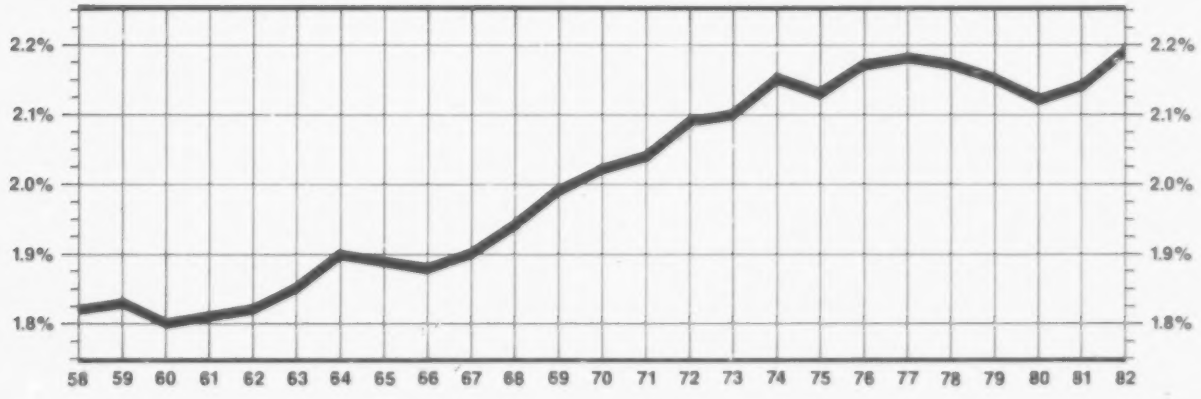
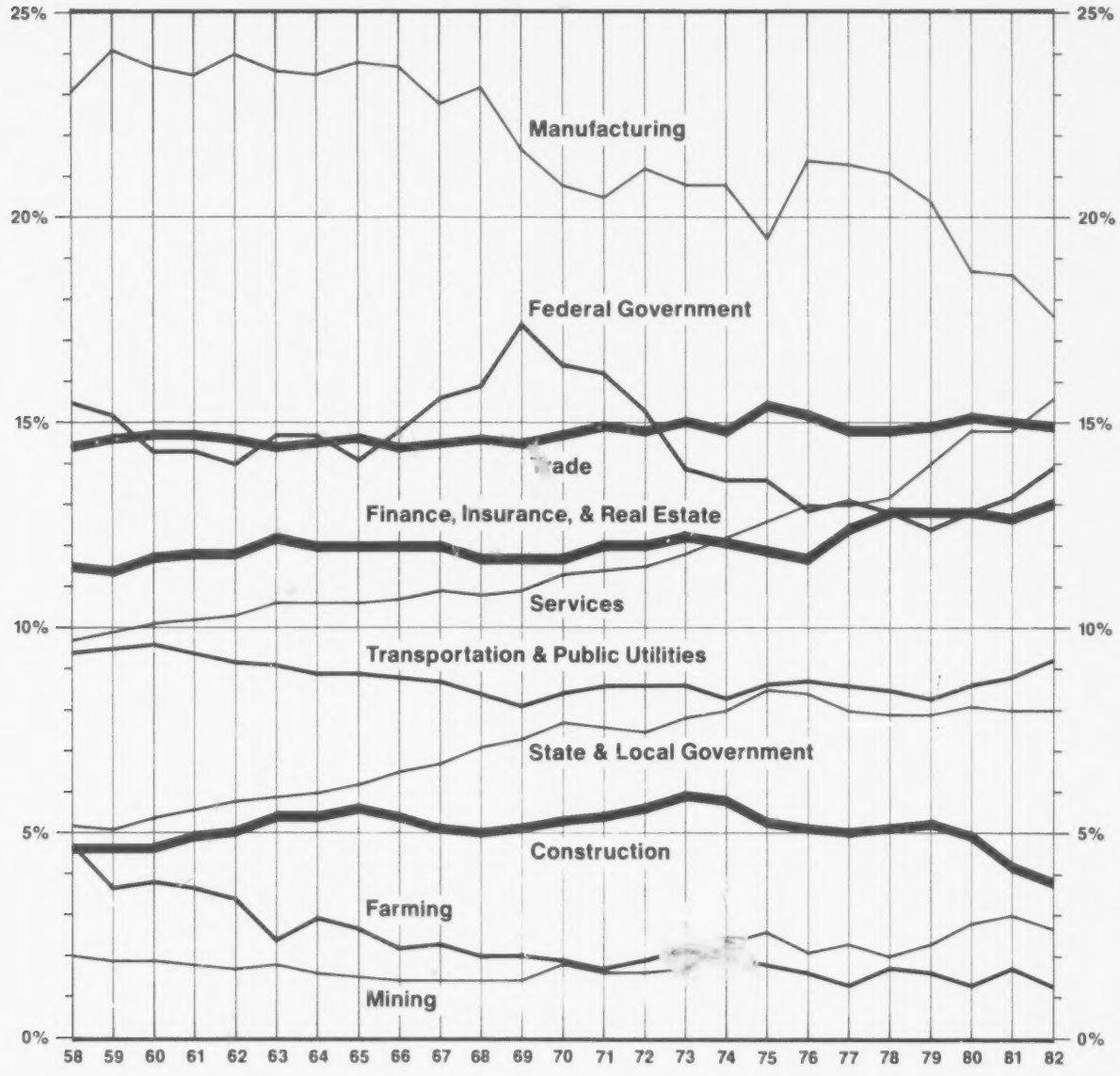


Figure 2.
Virginia GSP in Current Dollars as a Percent of GNP, 1958 - 1982



Manufacturing, federal government, services, and trade were the industrial sectors that had the largest share of current dollar Virginia GSP (see Figure 3 and Table 3). Manufacturing accounted for the largest percentage of current dollar GSP, dropping from a high of 24.1 percent in 1959 to a low of 17.6 percent in 1982. Federal government reached its high of 17.4 percent of GSP in 1969 then declined to a low of 12.4 percent in 1979. Services rose from a low of 9.7 percent in 1959 to reach a high of 15.6 percent in 1982. Trade ranged from a low of 14.4 percent (1958, 1963, and 1966) to a high of 15.4 percent

Figure 3.
Industrial Shares of Virginia Gross State Product, 1958-1982 (current dollars)



(1975). Finance, insurance, and real estate also accounted for more than 10.0 percent of current dollar Virginia GSP, rising from 11.4 percent in 1959 to 13.0 percent in 1982. The remaining industrial sectors each accounted for less than 10.0 percent of current dollar GSP. They were transportation and public utilities with a high of 9.6 percent (1960) and a low of 8.1 percent (1969); state and local government, with a high of 8.5 percent (1975) and a low of 5.1 percent (1959); construction with a high of 5.9 percent (1973) and a low of 3.8 percent (1982); mining with a low of 1.4 percent (1966-1969) and a high of 3.0 percent (1981); and farming with a high of 4.7 percent (1958) and a low of 1.3 percent (1977, 1980, and 1982).

Once adjustments were made for inflation the relative positions of the industrial sectors remained basically the same as when measured in current dollars. Manufacturing, federal government, trade and services had the largest shares of real Virginia GSP followed by finance, insurance and real estate. Transportation and public utilities, state and local government, construction, farming, and mining each contributed less than 10 percent to real GSP.

In 1972 dollars, the industrial divisions that grew faster than the state annual average of 4.1 percent were services, 5.3 percent; finance, insurance, and real estate, 5.1 percent; transportation and public utilities, 5.0 percent; state and local government, 5.0 percent; trade, 4.8 percent; and manufacturing, 4.6 percent. The slower growing sectors were mining, 3.6 percent; federal government, 1.7 percent; construction, 1.6 percent; and farming, 0.2 percent.

Virginia GSP per capita (current dollars) grew from $2,096 in 1958 to $12,234 in 1982, (see Table 4). Virginia GSP per capita as a percent of GNP per capita was in the low to mid 80's until the late 1960's. Then after a substantial gain, it has remained in the low 90's for the last decade.

Gross farm product, a component of Virginia gross state product, is derived from the U.S. Department of Agriculture's state farm income statistics for Virginia. This is accomplished by subtracting intermediate production expenses from the value of total farm output. Government payments are omitted from the value of farm output. In addition, farm wages are not included as production expenses and therefore are considered part of gross state product. The following table illustrates the computation of Virginia gross farm product for 1982 (current dollars).

	Millions of Dollars
Value of total farm output	
Cash receipts from marketings	1,679.6
Nonmonetary income	307.6
Other farm income	25.1
Net change in inventories	-71.3
Subtotal	1,941.0
Less: Intermediate production expenses	
Feed	239.2
Livestock, purchased	44.2
Seed, plants, and bulbs	46.7
Fertilizer and lime	146.6
Repairs and operations of capital items	267.2
Miscellaneous operating expenses	330.9
Subtotal	1,074.8
Gross farm product	866.2

A detailed statement of the methodology used for all industrial sectors is available upon request.

Table 1.
Virginia Gross State Product in Current Dollars, 1958 - 1982 (millions of current dollars)

Year	Total	Construction	Farming	Finance, Insurance, and Real Estate	Federal Government	State and Local Government	Manufacturing	Mining	Services[a/]	Trade	Transportation and Public Utilities
1958	8,205.2	380.4	382.6	939.7	1,268.8	425.4	1,891.8	165.5	797.7	1,178.9	774.4
1959	8,907.2	413.6	326.9	1,011.3	1,356.5	453.4	2,147.0	173.3	878.3	1,302.1	844.8
1960	9,107.8	421.8	347.9	1,068.8	1,300.3	494.8	2,156.2	175.4	923.9	1,341.7	877.0
1961	9,496.7	465.3	353.4	1,125.1	1,360.8	536.5	2,228.8	173.5	966.8	1,392.5	894.0
1962	10,277.0	518.1	353.5	1,217.3	1,442.7	593.5	2,471.3	179.0	1,057.9	1,498.8	944.9
1963	11,041.1	593.5	269.9	1,345.3	1,621.8	647.4	2,606.2	193.5	1,166.5	1,588.9	1,008.1
1964	12,122.5	650.9	355.2	1,451.0	1,783.7	721.9	2,847.9	198.9	1,282.1	1,756.5	1,074.4
1965	13,060.0	727.0	353.6	1,567.7	1,843.5	804.9	3,108.4	194.4	1,387.4	1,912.0	1,161.1
1966	14,202.7	768.5	306.9	1,710.5	2,100.3	919.3	3,366.5	203.8	1,522.0	2,051.9	1,253.0
1967	15,209.3	772.9	355.6	1,825.8	2,367.8	1,021.4	3,471.8	212.2	1,654.1	2,205.6	1,322.1
1968	16,958.7	851.3	337.3	1,991.5	2,693.8	1,197.3	3,929.1	235.1	1,829.9	2,468.3	1,425.1
1969	18,809.5	953.8	373.8	2,195.5	3,264.3	1,367.9	4,087.0	257.6	2,046.4	2,733.1	1,530.1
1970	20,052.2	1,057.4	386.5	2,345.7	3,298.3	1,543.1	4,173.9	356.3	2,263.6	2,941.8	1,685.6
1971	21,994.8	1,189.9	383.9	2,642.8	3,557.0	1,670.2	4,516.4	362.1	2,508.1	3,280.1	1,884.3
1972	24,801.6	1,380.5	468.2	2,973.0	3,805.2	1,866.5	5,261.1	408.8	2,850.1	3,658.9	2,129.3
1973	27,898.0	1,651.5	623.2	3,397.8	3,885.1	2,189.3	5,813.3	469.2	3,305.0	4,172.2	2,391.4
1974	30,777.6	1,777.9	627.0	3,736.1	4,184.1	2,467.0	6,388.5	714.2	3,755.7	4,569.8	2,557.3
1975	33,011.6	1,757.1	603.6	3,924.9	4,489.4	2,821.2	6,452.5	868.8	4,166.4	5,098.7	2,829.0
1976	37,253.3	1,881.9	601.5	4,343.9	4,818.5	3,119.1	7,969.5	793.6	4,826.7	5,653.0	3,245.6
1977	41,911.1	2,090.5	558.9	5,214.8	5,488.6	3,351.0	8,940.2	970.2	5,454.7	6,223.6	3,618.6
1978	46,983.2	2,390.8	805.5	6,001.2	6,018.0	3,734.1	9,894.8	961.2	6,219.8	6,973.3	3,984.5
1979	51,908.4	2,724.0	853.1	6,635.7	6,458.1	4,121.5	10,600.9	1,185.5	7,287.5	7,740.1	4,302.0
1980	55,925.4	2,723.6	713.5	7,163.4	7,176.8	4,556.5	10,461.8	1,578.0	8,283.2	8,442.0	4,826.6
1981	63,246.6	2,685.1	1,047.4	8,024.0	8,347.9	5,028.8	11,789.8	1,893.5	9,383.8	9,460.6	5,585.7
1982	67,178.6	2,561.0	866.2	8,746.7	9,333.1	5,395.0	11,813.1	1,796.2	10,485.2	10,024.6	6,157.5

Sources: Survey of Current Business, Vol. 63, No. 7 (July 1983), p. 69 (Table 6.3B); unpublished tabulations from the U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Wealth Division; Survey of Current Business, Vol. 63, No. 8 (August 1983), p. 58 (Table 3); unpublished tabulations from the U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Measurement Division; U.S. Department of Commerce, Bureau of the Census, Annual Survey of Manufactures (selected editions); 1977 Census of Manufactures, Vol. II, Part 1, General Summary, p. 3 and Vol. III, Part 2, p. 47-5; U.S. Department of Agriculture, Economic Research Service, Economic Indicators of the Farm Sector: State Income and Balance Sheet Statistics, 1982; unpublished revisions and historical cost figures from the U.S. Department of Agriculture, Economic Research Service.

a/ Includes agricultural services, forestry and fisheries, and "rest of the world," which includes operations of foreign governments and international organizations in the United States.

Table 2.
Virginia Gross State Product in Constant Dollars, 1958 - 1982 (millions of 1972 dollars)

Year	Total	Construction	Farming	Finance, Insurance, and Real Estate	Federal Government	State and Local Government	Manufacturing	Mining	Services[a/]	Trade	Transportation and Public Utilities
1958	13,033.8	763.9	511.3	1,406.7	2,832.1	890.0	2,341.3	169.4	1,437.3	1,689.0	992.8
1959	13,822.3	823.9	463.7	1,480.7	2,917.2	912.3	2,602.4	187.4	1,530.1	1,833.9	1,070.7
1960	13,882.7	836.9	496.2	1,531.2	2,766.6	951.5	2,576.1	188.0	1,565.9	1,871.3	1,099.0
1961	14,345.7	903.5	507.0	1,600.4	2,883.1	993.5	2,653.3	185.0	1,600.7	1,912.8	1,106.4
1962	15,225.0	977.5	490.3	1,712.1	2,974.6	1,044.9	2,921.2	195.0	1,695.4	2,056.0	1,158.0
1963	16,146.7	1,083.0	386.4	1,842.9	3,143.0	1,101.0	3,147.6	215.5	1,822.7	2,167.7	1,236.9
1964	17,307.0	1,137.9	524.5	1,947.7	3,272.8	1,193.2	3,439.5	224.2	1,933.8	2,332.7	1,300.7
1965	18,169.0	1,205.6	488.2	2,054.7	3,239.9	1,289.9	3,722.6	226.3	2,013.6	2,519.1	1,409.1
1966	19,095.1	1,169.7	377.7	2,162.5	3,512.2	1,397.1	3,960.6	238.1	2,113.9	2,640.8	1,522.5
1967	19,774.8	1,101.0	482.5	2,229.3	3,806.8	1,444.7	3,972.3	245.9	2,205.5	2,712.9	1,573.9
1968	20,967.5	1,172.6	434.3	2,342.9	3,915.4	1,583.7	4,341.5	269.9	2,304.7	2,903.9	1,698.6
1969	22,181.7	1,149.2	446.5	2,512.0	4,483.9	1,686.7	4,413.6	291.4	2,407.5	3,020.0	1,770.9
1970	22,178.5	1,154.4	456.0	2,566.4	4,056.9	1,751.5	4,320.8	382.7	2,506.8	3,116.3	1,866.7
1971	23,107.4	1,286.4	448.7	2,747.2	4,005.6	1,771.2	4,539.1	383.2	2,607.2	3,353.9	1,964.9
1972	24,801.6	1,380.5	468.2	2,973.0	3,805.2	1,866.5	5,261.1	408.8	2,850.1	3,658.9	2,129.3
1973	26,500.1	1,497.3	395.2	3,257.7	3,682.6	2,038.5	5,795.9	413.8	3,126.8	3,977.3	2,315.0
1974	26,904.6	1,369.7	416.8	3,412.0	3,699.5	2,175.5	5,844.9	426.4	3,314.8	3,915.9	2,329.1
1975	26,382.7	1,214.3	459.7	3,413.0	3,664.8	2,289.9	5,216.2	422.2	3,322.5	4,014.7	2,365.4
1976	28,156.1	1,296.1	448.8	3,546.0	3,620.2	2,345.2	6,163.6	352.9	3,588.6	4,272.9	2,521.8
1977	29,820.3	1,326.5	439.7	3,920.9	3,923.2	2,351.6	6,525.7	399.8	3,822.5	4,461.4	2,649.0
1978	31,219.7	1,375.6	498.7	4,116.0	4,020.0	2,469.6	6,814.6	371.1	4,078.6	4,708.5	2,767.0
1979	32,086.1	1,370.9	465.7	4,248.2	4,038.8	2,564.7	6,906.1	369.8	4,416.7	4,831.5	2,873.7
1980	31,620.8	1,187.8	445.2	4,233.7	4,174.3	2,584.4	6,313.7	354.5	4,585.0	4,838.1	2,904.1
1981	32,762.4	1,088.4	621.4	4,265.8	4,322.2	2,636.9	6,608.6	337.2	4,819.6	5,020.0	3,042.3
1982	32,749.8	997.3	566.7	4,327.9	4,510.3	2,615.2	6,293.6	334.4	4,974.2	5,072.9	3,057.3

Sources: The sources cited in Table 1, plus Table 7.22 in the July 1983 Survey of Current Business; U.S. Department of Agriculture, Crop Reporting Board, Statistical Reporting Service, Agricultural Prices Annual Summary, 1982, p. 7, and earlier annual summaries; U.S. Department of Agriculture, Agricultural Statistics, 1976, p. 457.

a/ Includes agricultural services, forestry and fisheries, and "rest of the world," which includes operations of foreign governments and international organizations in the United States.

Table 3.
Industrial Shares of Virginia Gross State Product, 1958-1982 (current dollars)

	Percent of Total Virginia Gross State Product										
Year	Total	Construction	Farming	Finance, Insurance, and Real Estate	Federal Government	State and Local Government	Manufacturing	Mining	Services	Trade	Transportation and Public Utilities
1958	100.0	4.6	4.7	11.5	15.5	5.2	23.1	2.0	9.7	14.4	9.4
1959	100.0	4.6	3.7	11.4	15.2	5.1	24.1	1.9	9.9	14.6	9.5
1960	100.0	4.6	3.8	11.7	14.3	5.4	23.7	1.9	10.1	14.7	9.6
1961	100.0	4.9	3.7	11.8	14.3	5.6	23.5	1.8	10.2	14.7	9.4
1962	100.0	5.0	3.4	11.8	14.0	5.8	24.0	1.7	10.3	14.6	9.2
1963	100.0	5.4	2.4	12.2	14.7	5.9	23.6	1.8	10.6	14.4	9.1
1964	100.0	5.4	2.9	12.0	14.7	6.0	23.5	1.6	10.6	14.5	8.9
1965	100.0	5.6	2.7	12.0	14.1	6.2	23.8	1.5	10.6	14.6	8.9
1966	100.0	5.4	2.2	12.0	14.8	6.5	23.7	1.4	10.7	14.4	8.8
1967	100.0	5.1	2.3	12.0	15.6	6.7	22.8	1.4	10.9	14.5	8.7
1968	100.0	5.0	2.0	11.7	15.9	7.1	23.2	1.4	10.8	14.6	8.4
1969	100.0	5.1	2.0	11.7	17.4	7.3	21.7	1.4	10.9	14.5	8.1
1970	100.0	5.3	1.9	11.7	16.4	7.7	20.8	1.8	11.3	14.7	8.4
1971	100.0	5.4	1.7	12.0	16.2	7.6	20.5	1.6	11.4	14.9	8.6
1972	100.0	5.6	1.9	12.0	15.3	7.5	21.2	1.6	11.5	14.8	8.6
1973	100.0	5.9	2.2	12.2	13.9	7.8	20.8	1.7	11.8	15.0	8.6
1974	100.0	5.8	2.0	12.1	13.6	8.0	20.8	2.3	12.2	14.8	8.3
	100.0										
1975	100.0	5.3	1.8	11.9	13.6	8.5	19.5	2.6	12.6	15.4	8.6
1976	100.0	5.1	1.6	11.7	12.9	8.4	21.4	2.1	13.0	15.2	8.7
1977	100.0	5.0	1.3	12.4	13.1	8.0	21.3	2.3	13.0	14.8	8.6
1978	100.0	5.1	1.7	12.8	12.8	7.9	21.1	2.0	13.2	14.8	8.5
1979	100.0	5.2	1.6	12.8	12.4	7.9	20.4	2.3	14.0	14.9	8.3
1980	100.0	4.9	1.3	12.8	12.8	8.1	18.7	2.8	14.8	15.1	8.6
1981	100.0	4.2	1.7	12.7	13.2	8.0	18.6	3.0	14.8	15.0	8.8
1982	100.0	3.8	1.3	13.0	13.9	8.0	17.6	2.7	15.6	14.9	9.2

Table 4.
Virginia GSP Per Capita and GNP Per Capita, 1958 - 1982 (current and 1972 dollars)

	Current Dollars			1972 Dollars		
Year	Virginia Per Capita	U.S. Per Capita	Virginia as a % of U.S.	Virginia Per Capita	U.S. Per Capita	Virginia as a % of U.S.
1958	2,096	2,582	81	3,330	3,907	85
1959	2,254	2,755	82	3,498	4,075	86
1960	2,285	2,815	81	3,483	4,097	85
1961	2,319	2,867	81	3,503	4,136	85
1962	2,459	3,043	81	3,642	4,309	85
1963	2,582	3,167	82	3,776	4,418	85
1964	2,782	3,338	83	3,972	4,587	87
1965	2,961	3,572	83	4,119	4,804	86
1966	3,187	3,867	82	4,285	5,038	85
1967	3,374	4,051	83	4,387	5,125	86
1968	3,721	4,382	85	4,600	5,309	87
1969	4,077	4,690	87	4,807	5,403	89
1970	4,303	4,871	88	4,759	5,327	89
1971	4,628	5,210	89	4,862	5,427	90
1972	5,137	5,667	91	5,137	5,667	91
1973	5,686	6,276	91	5,401	5,935	91
1974	6,182	6,723	92	5,404	5,842	92
1975	6,529	7,190	91	5,218	5,716	91
1976	7,258	7,897	92	5,486	5,967	92
1977	8,051	8,729	92	5,728	6,233	92
1978	8,891	9,743	91	5,908	6,477	91
1979	9,749	10,766	91	6,026	6,588	91
1980	10,431	11,585	90	5,898	6,493	91
1981	11,658	12,880	90	6,039	6,600	92
1982	12,234	13,272	92	5,964	6,415	93

Source: Tables 1 and 2 and unpublished July 1st population estimates from the U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Measurement Division.

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